

SCORE Search Results Details for Application 10591347 and Search Result 20110506_133209_us-10-591-347-2.rni.

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This page gives you Search Results detail for the Application 10591347 and Search Result 20110506_133209_us-10-591-347-2.rni.

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OM nucleic - nucleic search, using sw model

Run on: May 6, 2011, 13:32:38 ; Search time 1342 Seconds
(without alignments)
29278.208 Million cell updates/sec

Title: US-10-591-347-2
Perfect score: 3424
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 21130652 seqs, 5737639395 residues

Total number of hits satisfying chosen parameters: 42261304

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
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2	3407.2	99.5	3412	2	US-08-780-872-32	Sequence 32, Appl
3	3407.2	99.5	3412	3	US-09-085-957-32	Sequence 32, Appl
4	3407.2	99.5	3412	8	US-09-325-095-32	Sequence 32, Appl
5	3343.4	97.6	4300	11	US-11-443-428A-73308	Sequence 73308, A
6	3343.4	97.6	4354	11	US-11-443-428A-73313	Sequence 73313, A
7	3236.8	94.5	3240	2	US-08-162-081B-34	Sequence 34, Appl
8	3236.8	94.5	3240	2	US-08-780-872-34	Sequence 34, Appl
9	3236.8	94.5	3240	3	US-09-085-957-34	Sequence 34, Appl
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11	3225.4	94.2	4300	11	US-11-443-428A-73309	Sequence 73309, A
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	20	460.8	13.5	3213	3	US-09-392-350-1	Sequence 1, Appli
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	29	329.8	9.6	3387	3	US-10-162-160A-2	Sequence 2, Appli
	30	329.8	9.6	3387	8	US-11-219-611-2	Sequence 2, Appli
	31	329.8	9.6	3868	3	US-09-357-070-1	Sequence 1, Appli
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	40	329.8	9.6	5220	3	US-10-697-912-1	Sequence 1, Appli
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c	45	329.8	9.6	8165	11	US-11-443-428A-621102	Sequence 621102,

ALIGNMENTS

RESULT 1
US-08-162-081B-32
; Sequence 32, Application US/08162081B
; Patent No. 5824492
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/162,081B
; FILING DATE: February 7, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3412 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single or double

; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..3204
; OTHER INFORMATION: /standard_name= "CDS"
US-08-162-081B-32

Query Match 99.5%; Score 3407.2; DB 2; Length 3412;
Best Local Similarity 99.9%;
Matches 3409; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy	133	ACATTAGTAAC	TATAAAGCATGAAC	TATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	192
Db	121	ACATTAGTAAC	TATAAAGCATGAAC	TATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA		252	
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Qy	253	GAATTTTTT	TGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTTAAAA	312	
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Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT		372	
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Qy	373	ATCGGCATGCCAGTGTCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA		432	
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Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
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; Patent No. 5846824
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/780,872
; FILING DATE: 09-JAN-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3412 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single or double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..3204
; OTHER INFORMATION: /standard_name= "CDS"
US-08-780-872-32

Query Match		99.5%;	Score 3407.2;	DB 2;	Length 3412;	
Best Local Similarity		99.9%;				
Matches 3409;		Conservative	0;	Mismatches	3;	Indels 0; Gaps 0;
Qy	13	ATGCCTCCAAGACCATCATCAGGTGAAC	TGTGGGGCATCCACTTGATGCCCCCAAGAATC	72		
Db	1	ATGCCTCCAAGACCATCATCAGGTGAAC	TGTGGGGCATCCACTTGATGCCCCCAAGAATC	60		
Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132			
Db	61	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120			
Qy	133	ACATTAGTAACTATAAAGCATGAAC	TATTTAAAGAAGCAAGAAAATACCC	TCTCCATCAA	192	
Db	121	ACATTAGTAACTATAAAGCATGAAC	TATTTAAAGAAGCAAGAAAATACCC	TCTCCATCAA	180	
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252			
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240			
Qy	253	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTTAAAA	312			
Db	241	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTTAAAA	300			
Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT	372			
Db	301	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT	360			
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432			
Db	361	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420			

Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCTTTGT	1032
Db	961	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692

Db	1621	 TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAGT	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	 ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	 GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCGGTGCTTGGAA	1872
Db	1801	 CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	 AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	 TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAACAGTT	2052
Db	1981	 CAAAGGATTGGGCACTTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041	 AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAA	2172
Db	2101	 CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161	 CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCA	2292
Db	2221	 CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	 CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAAGCCAGACATCATGTCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2412
Db	2341	 TTGAATTGGGAGAAGCCAGACATCATGTCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTCGTATTATG	2472
Db	2401	 TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTCGTATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	 GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATCTCACACTATTATGCAAATT	2592
Db	2521	 ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATCTCACACTATTATGCAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	 CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	 CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	 TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACGTTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	 ATCATGGTGAAAGACGATGGACAACGTTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTGTGTTTGGACACAGGATTTT	2892

Db	2821	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCCAAGAATGCACAAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCCAAGAATGCACAAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240
Qy	3253	TTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGCATAGGAATTGCAC	3312
Db	3241	CACTACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGCATAGGAATTGCAC	3300
Qy	3313	AATCCATGAACAGCATTAGATTTACAGCAAGAACAGAAATAAAATACTATATAATTTAAA	3372
Db	3301	AATCCATGAACAGCATTAGATTTACAGCAAGAACAGAAATAAAATACTATATAATTTAAA	3360
Qy	3373	TAATGTAAACGCAAACAGGGTTTGATAGCACTTAACTAGTTCATTTCAAAA	3424
Db	3361	TAATGTAAACGCAAACAGGGTTTGATAGCACTTAACTAGTTCATTTCAAAA	3412

RESULT 3

US-09-085-957-32

; Sequence 32, Application US/09085957

; Patent No. 6274327

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/085,957
; FILING DATE:
; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993

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Query Match	99.5%;	Score 3407.2;	DB 3;	Length 3412;	
Best Local Similarity	99.9%;				
Matches 3409;	Conservative	0;	Mismatches 3;	Indels 0;	Gaps 0;
Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC	72		
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC	60		
Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132		
Db	61	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120		
Qy	133	ACATTAGTAACTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCCTCTCCATCAA	192		
Db	121	ACATTAGTAACTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCCTCTCCATCAA	180		
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252		
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240		
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	312		
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	300		
Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	372		
Db	301	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	360		
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432		
Db	361	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420		
Qy	433	AGAAAATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492		
Db	421	AGAAAATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480		
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552		
Db	481	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540		
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612		
Db	541	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600		
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672		
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660		
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	732		
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	720		
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792		
Db	721	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780		
Qy	793	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852		
Db	781	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840		
Qy	853	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912		
Db	841	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900		
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972		
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	960		
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCTTTGT	1032		

Db	961	 GAAACATCTACAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	 GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	 TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCCTGATCTTCCTCGTGCTGCT	1212
Db	1141	 CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCCTGATCTTCCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	 CGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	 CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
Db	1321	 ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	 GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	 AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	 TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	 AATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAACT	1692
Db	1621	 TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAACT	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	 ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGTTGTTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	 GCCCAGATGTATTGCTTGTTGTTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGA	1872
Db	1801	 CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTACAGCTAGTACAGGTCCTAAAA	1932
Db	1861	 AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTACAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	 TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTTCTTTTGGCATTAAATCTGAGATGCACAATAAAACAGTT	2052
Db	1981	 CAAAGGATTGGGCACTTTTTCTTTTGGCATTAAATCTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041	 AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAAA	2172
Db	2101	 CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232

Db	2161	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTTAGTTGAGCAAATGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCTGCTCATCAA	2292
Db	2221	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCTGCTCATCAA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCTGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTAGGAAACCTCAGGCTTAAAGAGTGTCTGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2412
Db	2341	TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACTATTATGCAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACTATTATGCAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACGTGTTTCATATAGATTTTGGACACTTTTTGGATCAC	2832
Db	2761	ATCATGGTGAAAGACGATGGACAACGTGTTTCATATAGATTTTGGACACTTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2892
Db	2821	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAAATGAAAGCTCACTCTGGA	3240
Qy	3253	TTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGCATAGGAATTGCAC	3312
Db	3241	CACTACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGCATAGGAATTGCAC	3300
Qy	3313	AATCCATGAACAGCATTAGATTTACAGCAAGAACAGAAATAAAATACTATATAATTTAAA	3372
Db	3301	AATCCATGAACAGCATTAGATTTACAGCAAGAACAGAAATAAAATACTATATAATTTAAA	3360
Qy	3373	TAATGTAAACGCAACAGGGTTTGATAGCACTTAAACTAGTTCATTTCAAAA	3424
Db	3361	TAATGTAAACGCAACAGGGTTTGATAGCACTTAAACTAGTTCATTTCAAAA	3412

RESULT 4
US-09-325-095-32
; Sequence 32, Application US/09325095
; Patent No. 7422849
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/325,095
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/085,957
; FILING DATE:
; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3412 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single or double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..3204
; OTHER INFORMATION: /standard_name= "CDS"
US-09-325-095-32

Query Match		99.5%;	Score 3407.2;	DB 8;	Length 3412;	
Best Local Similarity		99.9%;				
Matches 3409;		Conservative	0;	Mismatches	3;	Indels 0; Gaps 0;
Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	72			
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	60			
Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132			
Db	61	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120			
Qy	133	ACATTAGTAACTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	192			
Db	121	ACATTAGTAACTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	180			
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252			
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240			
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTTAAAA	312			
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTTAAAA	300			

Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	372
Db	301	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAAATAGTGGTGATTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAGAGGCCAAATAAATAGTGGTGATTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCCTTTGT	1032
Db	961	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTTGATCTTCTCTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTTGATCTTCTCTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500

Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAACT	1692
Db	1621	TCTGAAATCACTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAACT	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACCTTTTTCTTTTGGCATTTTAAAATCTGAGATGCACAATAAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACCTTTTTCTTTTGGCATTTTAAAATCTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTTAAGTACATTCTCAAA	2172
Db	2101	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTTAAGTACATTCTCAAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCAA	2292
Db	2221	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCAA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAAGCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2412
Db	2341	TTGAATTGGGAGAAGCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2400
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Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTCGTATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTTCTCACACTATTATGCAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTTCTCACACTATTATGCAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772

Db	2701		TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773		ATCATGGTGAAAGACGATGGACAACGTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761		ATCATGGTGAAAGACGATGGACAACGTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833		AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2892
Db	2821		AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2880
Qy	2893		TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881		TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953		CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941		CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013		CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001		CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073		TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061		TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133		AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121		AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193		ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181		ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240
Qy	3253		TTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGCATAGGAATTGCAC	3312
Db	3241		CACTACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGCATAGGAATTGCAC	3300
Qy	3313		AATCCATGAACAGCATTAGATTTACAGCAAGAACAGAAATAAAATACTATATAATTTAAA	3372
Db	3301		AATCCATGAACAGCATTAGATTTACAGCAAGAACAGAAATAAAATACTATATAATTTAAA	3360
Qy	3373		TAATGTAAACGCAAACAGGGTTTGATAGCACTTAACTAGTTCATTTCAAAA	3424
Db	3361		TAATGTAAACGCAAACAGGGTTTGATAGCACTTAACTAGTTCATTTCAAAA	3412

RESULT 5
US-11-443-428A-73308
; Sequence 73308, Application US/11443428A
; Patent No. 7745391
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hanqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 73308
; LENGTH: 4300
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (23)..(23)

; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (27)..(27)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (30)..(30)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (59)..(59)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (64)..(64)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (86)..(86)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (90)..(90)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (354)..(354)
; OTHER INFORMATION: n is a, c, g, or t
US-11-443-428A-73308

Query Match 97.6%; Score 3343.4; DB 11; Length 4300;
Best Local Similarity 98.9%;
Matches 3387; Conservative 0; Mismatches 37; Indels 2; Gaps 2;

Qy	1	AGGATCAGAACAATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATG	60
Db	172	AGAATCAGAACAATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATG	231
Qy	61	CCCCCAAGAATCCTAGTGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGC	120
Db	232	CCCCCAAGAATCCTAGTAGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGC	291
Qy	121	CTCCGTGAGGCTACATTAGTAACATAAAGCATGAACTATTTAAAGAAGCAAGAAAATAC	180
Db	292	CTCCGTGAGGCTACATTAATAACCATAAAGCATGAACTATTTAAAGAAGCAAGAAAATAC	351
Qy	181	CCTCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA	240
Db	352	CCNCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA	411
Qy	241	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAA	300
Db	412	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCAA	471
Qy	301	CCATTTTTTAAAAGTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	360
Db	472	CCCTTTTTTAAAAGTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	531
Qy	361	ATTGGTTTTGCTATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTA	420
Db	532	ATTGGTTTTGCTATCGGCATGCCAGTGTGTGAATTGATATGGTTAAAGATCCAGAAGTA	591
Qy	421	CAGGACTTCCGAAGAAATATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTT	480
Db	592	CAGGACTTCCGAAGAAATATTCTGAACGTTTGTAAGAAGCTGTGGATCTTAGGGACCTC	651
Qy	481	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAG	540
Db	652	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCTCCAAATGTAGAATCTTCACCAGAA	711
Qy	541	CTGCCAAAGCACATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTA	600
Db	712	TTGCCAAAGCACATATATAATAAATTAGATAAAGGGCAAATAATAGTGGTGATCTGGGTA	771
Qy	601	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	660
Db	772	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	831
Qy	661	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCT	720

Db	832	CCAGAACAAAGTAATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCCTCT	891
Qy	721	GAACAATTA AAACTCTGTGTTTTAG AATATCAGGGCAAGTACATTTTAAAAGTGTGTGGA	780
Db	892	GAACAAC TAAAACTCTGTGTTTTAG AATATCAGGGCAAGTATATTTTAAAAGTGTGTGGA	951
Qy	781	TGTGATGAATACTTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	840
Db	952	TGTGATGAATACTTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	1011
Qy	841	ATAATGCTTGGGAGGATGCCCAATTTGAAGATGATGGCTAAAAGAAAGCCTTTATTCTCAA	900
Db	1012	ATAATGCTTGGGAGGATGCCCAATTTGATGTTGATGGCTAAAAGAAAGCCTTTATTCTCAA	1071
Qy	901	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCA	960
Db	1072	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCA	1131
Qy	961	TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATA	1020
Db	1132	TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTATAAAATAGTGCACCTCAGAATA	1191
Qy	1021	AAAATTCTTTGTGCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTT	1080
Db	1192	AAAATTCTTTGTGCAACCTACGTGAATGTAAATATTCGAGACATTGATAAGATCTATGTT	1251
Qy	1081	CGAACAGGTATCTACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTA	1140
Db	1252	CGAACAGGTATCTACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTA	1311
Qy	1141	CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTT	1200
Db	1312	CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTT	1371
Qy	1201	CCTCGTGCTGCTCGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1260
Db	1372	CCTCGTGCTGCTCGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1431
Qy	1261	GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1320
Db	1432	GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1491
Qy	1321	GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1380
Db	1492	GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1551
Qy	1381	AACCCCTATTGGTGTTACTGGATCAAATCCAAATAAGAAACTCCATGCTTAGAGTTGGAG	1440
Db	1552	AACCCCTATTGGTGTTACTGGATCAAATCCAAATAAGAAACTCCATGCTTAGAGTTGGAG	1611
Qy	1441	TTTGACTGGTTTCAGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCC	1500
Db	1612	TTTGACTGGTTTCAGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCC	1671
Qy	1501	AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGA	1560
Db	1672	AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGA	1731
Qy	1561	CTAGCTAGAGACAATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1620
Db	1732	CTAGCTAGAGACAATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1791
Qy	1621	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACAC	1680
Db	1792	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACAC	1851
Qy	1681	TATTGTGTAAC TATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCT	1740
Db	1852	TATTGTGTAAC TATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCT	1911
Qy	1741	AGAGATGAAGTAGCC CAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAA	1800
Db	1912	AGAGATGAAGTAGCC CAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAA	1971
Qy	1801	CAGGCTATGGAACTTCTGGACTGTAATTACCCAGATCCTATGGTTTCGAGGTTTTGCTGTT	1860
Db	1972	CAGGCTATGGAACTTCTGGACTGTAATTACCCAGATCCTATGGTTTCGAGGTTTTGCTGTT	2031
Qy	1861	CGGTGCTTGGAAAAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTA	1920
Db	2032	CGGTGCTTGGAAAAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTA	2091

Qy	1921	CAGGTCCTAAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAA	1980
Db	2092		2151
Qy	1981	GCATTGACTAATCAAAGGATTGGGCACTTTTTCTTTTGGCATTATAAAATCTGAGATGCAC	2040
Db	2152		2211
Qy	2041	AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGG	2100
Db	2212		2271
Qy	2101	ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGGAAGCTCATTAACTTAACT	2160
Db	2272		2331
Qy	2161	GACATTCTCAAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTT	2220
Db	2332		2391
Qy	2221	GAGCAAATGAGGCGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAAC	2280
Db	2392		2451
Qy	2281	CCTGCTCATCAACTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAA	2340
Db	2452		2511
Qy	2341	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAAC	2400
Db	2512		2571
Qy	2401	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATT	2460
Db	2572		2631
Qy	2461	ATTCGTATTATGGAATAATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTAT	2520
Db	2632		2691
Qy	2521	GGTTGTCTGTCAATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACT	2580
Db	2692		2751
Qy	2581	ATTATGCAAATTCAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2640
Db	2752		2811
Qy	2641	CTACATCAGTGGCTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTG	2700
Db	2812		2871
Qy	2701	TTTACACGTTTCATGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2760
Db	2872		2931
Qy	2761	CACAATAGTAACATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2820
Db	2932		2991
Qy	2821	TTTTTGGATCACAAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTG	2880
Db	2992		3051
Qy	2881	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAA	2940
Db	3052		3111
Qy	2941	TTTGAGAGGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAAT	3000
Db	3112		3171
Qy	3001	CTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3060
Db	3172		3231
Qy	3061	GATGACATTGCATACATTTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTG	3120
Db	3232		3291

Qy	3121	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3180
Db	3292	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3351
Qy	3181	TGGATCTTCCACACAATTAACAGCATGCATTGAACTG-AAAAGATAACTGAGAAAAATGAA	3239
Db	3352	TGGATCTTCCACACAATTAACAGCATGCATTGAACTGAAAAGATAACTGAGAAAAATGAA	3411
Qy	3240	AGCTCACTCTGGATTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGC	3299
Db	3412	AGCTCACTCTGGATTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGC	3471
Qy	3300	ATAGGAATTGCACAATCCATGAACAGCATTAG-ATTTACAGCAAGAACAGAAATAAAATA	3358
Db	3472	ATAGGAATTGCACAATCCATGAACAGCATTAGAATTTACAGCAAGAACAGAAATAAAATA	3531
Qy	3359	CTATATAATTTAAATAATGTAAACGCAAACAGGGTTTGATAGCACTTAAACTAGTTCATT	3418
Db	3532	CTATATAATTTAAATAATGTAAACGCAAACAGGGTTTGATAGCACTTAAACTAGTTCATT	3591
Qy	3419	TCAAAA 3424	
Db	3592	TCAAAA 3597	

RESULT 6
US-11-443-428A-73313
; Sequence 73313, Application US/11443428A
; Patent No. 7745391
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hanqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 73313
; LENGTH: 4354
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (23)..(23)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (27)..(27)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (30)..(30)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (59)..(59)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (64)..(64)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (86)..(86)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature

; LOCATION: (90)..(90)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (354)..(354)
; OTHER INFORMATION: n is a, c, g, or t
US-11-443-428A-73313

Query Match 97.6%; Score 3343.4; DB 11; Length 4354;
Best Local Similarity 98.9%;
Matches 3387; Conservative 0; Mismatches 37; Indels 2; Gaps 2;

Qy	1	AGGATCAGAACAATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATG	60
Db	172	AGAATCAGAACAATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATG	231
Qy	61	CCCCCAAGAATCCTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGC	120
Db	232	CCCCCAAGAATCCTAGTAGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGC	291
Qy	121	CTCCGTGAGGCTACATTAGTAACATAAAGCATGAACTATTTAAAGAAGCAAGAAAATAC	180
Db	292	CTCCGTGAGGCTACATTAATAACCATAAAGCATGAACTATTTAAAGAAGCAAGAAAATAC	351
Qy	181	CCTCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA	240
Db	352	CCNCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA	411
Qy	241	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTTCAA	300
Db	412	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTTCAA	471
Qy	301	CCATTTTTTAAAAGTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	360
Db	472	CCCTTTTTTAAAAGTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	531
Qy	361	ATTGGTTTTGCTATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTA	420
Db	532	ATTGGTTTTGCTATCGGCATGCCAGTGTGTGAATTTGATATGGTTAAAGATCCAGAAGTA	591
Qy	421	CAGGACTTCCGAAGAAATATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTT	480
Db	592	CAGGACTTCCGAAGAAATATTCTGAACGTTTGTAAGAAGCTGTGGATCTTAGGGACCTC	651
Qy	481	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAG	540
Db	652	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCTCCAAATGTAGAATCTTCACCAGAA	711
Qy	541	CTGCCAAAGCACATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTA	600
Db	712	TTGCCAAAGCACATATATAATAAATTAGATAAAGGGCAAATAATAGTGGTGATCTGGGTA	771
Qy	601	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	660
Db	772	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	831
Qy	661	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCT	720
Db	832	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCCTCT	891
Qy	721	GAACAATTAATACTCTGTGTTTTAGAAATATCAGGGCAAAGTACATTTTAAAAGTGTGTGGA	780
Db	892	GAACAATAATACTCTGTGTTTTAGAAATATCAGGGCAAAGTATATTTTAAAAGTGTGTGGA	951
Qy	781	TGTGATGAATACTTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	840
Db	952	TGTGATGAATACTTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	1011
Qy	841	ATAATGCTTGGGAGGATGCCCAATTTGAAGATGATGGCTAAAAGAAAGCCTTTATTCTCAA	900
Db	1012	ATAATGCTTGGGAGGATGCCCAATTTGATGTTGATGGCTAAAAGAAAGCCTTTATTCTCAA	1071
Qy	901	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCA	960
Db	1072	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCA	1131
Qy	961	TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATA	1020
Db	1132	TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTATAAATAGTGCCTCAGAATA	1191
Qy	1021	AAAATTCTTTGTGCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTT	1080

Db	1192	 AAAATTCTTTGTGCAACCTACGTGAATGTAAATATTCGAGACATTGATAAGATCTATGTT	1251
Qy	1081	CGAACAGGTATCTACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTA	1140
Db	1252	 CGAACAGGTATCTACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTA	1311
Qy	1141	CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTTCCTGATCTT	1200
Db	1312	 CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTTCCTGATCTT	1371
Qy	1201	CCTCGTGCTGCTCGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAA	1260
Db	1372	 CCTCGTGCTGCTCGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAA	1431
Qy	1261	GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1320
Db	1432	 GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1491
Qy	1321	GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1380
Db	1492	 GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1551
Qy	1381	AACCCCTATTGGTGTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAG	1440
Db	1552	 AACCCCTATTGGTGTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAG	1611
Qy	1441	TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCC	1500
Db	1612	 TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCC	1671
Qy	1501	AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGA	1560
Db	1672	 AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGA	1731
Qy	1561	CTAGCTAGAGACAATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1620
Db	1732	 CTAGCTAGAGACAATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1791
Qy	1621	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACAC	1680
Db	1792	 CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACAC	1851
Qy	1681	TATTGTGTAACATATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTAAATGGAATTCT	1740
Db	1852	 TATTGTGTAACATATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTAAATGGAATTCT	1911
Qy	1741	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAA	1800
Db	1912	 AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAA	1971
Qy	1801	CAGGCTATGGAAC TTCTGGACTGTAATTACCCAGATCCTATGGTTTCGAGGTTTGTGTT	1860
Db	1972	 CAGGCTATGGAAC TTCTGGACTGTAATTACCCAGATCCTATGGTTTCGAGGTTTGTGTT	2031
Qy	1861	CGGTGCTTGGA AAAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTA	1920
Db	2032	 CGGTGCTTGGA AAAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTA	2091
Qy	1921	CAGGTCC TAAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAA	1980
Db	2092	 CAGGTCC TAAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAA	2151
Qy	1981	GCATTGACTAATCAAAGGATTGGGCACTTTTTCTTTTGGCATTTAAATCTGAGATGCAC	2040
Db	2152	 GCATTGACTAATCAAAGGATTGGGCACTTTTTCTTTTGGCATTTAAATCTGAGATGCAC	2211
Qy	2041	AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGG	2100
Db	2212	 AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGG	2271
Qy	2101	ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGAAAAGCTCATTAAC TTAAC T	2160
Db	2272	 ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGAAAAGCTCATTAAC TTAAC T	2331
Qy	2161	GACATTCTCAAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTT	2220
Db	2332	 GACATTCTCAAACAGGAGAGAAGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTT	2391
Qy	2221	GAGCAAATGAGGCGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAAC	2280

Db	2392	GAGCAAAATGAGGCGACCAGATTTTCATGGATGCTCTACAGGGCTTTCTGTCTCCTCTAAAC	2451
Qy	2281	CCTGCTCATCAACTAGGAAACCTCAGGCTTAAAGAGTGTCTGAATTATGTCTTCTGCAAAA	2340
Db	2452	CCTGCTCATCAACTAGGAAACCTCAGGCTTGAAGAGTGTCTGAATTATGTCTCTGCAAAA	2511
Qy	2341	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAAC	2400
Db	2512	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAAC	2571
Qy	2401	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATT	2460
Db	2572	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATT	2631
Qy	2461	ATTCGTATTATGGAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTAT	2520
Db	2632	ATTCGTATTATGGAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTAT	2691
Qy	2521	GGTTGTCTGTCAATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACT	2580
Db	2692	GGTTGTCTGTCAATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACT	2751
Qy	2581	ATTATGCAAATTCAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2640
Db	2752	ATTATGCAAATTCAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2811
Qy	2641	CTACATCAGTGGCTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTG	2700
Db	2812	CTACATCAGTGGCTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTG	2871
Qy	2701	TTTACACGTTTCATGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2760
Db	2872	TTTACACGTTTCATGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2931
Qy	2761	CACAATAGTAACATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2820
Db	2932	CACAATAGTAACATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2991
Qy	2821	TTTTTGGATCACAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTG	2880
Db	2992	TTTTTGGATCACAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTG	3051
Qy	2881	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAA	2940
Db	3052	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAA	3111
Qy	2941	TTTGAGAGGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAAT	3000
Db	3112	TTTGAGAGGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAAT	3171
Qy	3001	CTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3060
Db	3172	CTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3231
Qy	3061	GATGACATTGCATACATTTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTG	3120
Db	3232	GATGACATTGCATACATTTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTG	3291
Qy	3121	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3180
Db	3292	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3351
Qy	3181	TGGATCTTCCACACAATTAACAGCATGCATTGAACTG-AAAGATAACTGAGAAAAATGAA	3239
Db	3352	TGGATCTTCCACACAATTAACAGCATGCATTGAACTGAAAAGATAACTGAGAAAAATGAA	3411
Qy	3240	AGCTCACTCTGGATTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGC	3299
Db	3412	AGCTCACTCTGGATTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGC	3471
Qy	3300	ATAGGAATTGCACAATCCATGAACAGCATTAG-ATTTACAGCAAGAACAGAAATAAAATA	3358
Db	3472	ATAGGAATTGCACAATCCATGAACAGCATTAGAATTTACAGCAAGAACAGAAATAAAATA	3531
Qy	3359	CTATATAATTTAAATAATGTAAACGCAAACAGGGTTTGATAGCACTTAACTAGTTCATT	3418
Db	3532	CTATATAATTTAAATAATGTAAACGCAAACAGGGTTTGATAGCACTTAACTAGTTCATT	3591
Qy	3419	TCAAAA 3424	
Db	3592	TCAAAA 3597	

RESULT 7
US-08-162-081B-34
; Sequence 34, Application US/08162081B
; Patent No. 5824492
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/162,081B
; FILING DATE: February 7, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-162-081B-34

Query Match		94.5%;	Score 3236.8;	DB 2;	Length 3240;	
Best Local Similarity		99.9%;				
Matches 3238;		Conservative	0;	Mismatches	2;	Indels 0; Gaps 0;
Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC	72			
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC	60			
Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT	132			
Db	61	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT	120			
Qy	133	ACATTAGTAACTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	192			
Db	121	ACATTAGTAACTATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	180			
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252			
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240			
Qy	253	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTTAAAA	312			
Db	241	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTTAAAA	300			
Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT	372			
Db	301	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT	360			
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432			
Db	361	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420			
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492			

Db	421	 AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	 AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGTTGGGTAATAGTTTCTCCA	612
Db	541	 ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	 AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	 ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	 CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	 TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	 AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	 TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCCTTGT	1032
Db	961	 GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCCTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTTCGAACAGGTATC	1092
Db	1021	 GCAACCTATGTGAATGTAAATATTTCGAGACATTGACAAGATTTATGTTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	 TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTTCCTGATCTTCCTCGTGCTGCT	1212
Db	1141	 CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTTCCTGATCTTCCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	 CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	 CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCATTGGT	1392
Db	1321	 ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	 GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	 AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	 TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	 AATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692

Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCGAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCCCGAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTTCTTTTGGCATTAAAAATCTGAGATGCACAATAAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACTTTTTCTTTTGGCATTAAAAATCTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTTAAGTACATTCTCAA	2172
Db	2101	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTTAAGTACATTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCTGCTCATCAA	2292
Db	2221	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCTGCTCATCAA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAAGCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2412
Db	2341	TTGAATTGGGAGAAGCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATCTCACACTATTATGCAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATCTCACACTATTATGCAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTGAAAGACGATGGACAACGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2892
Db	2821	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2880

Qy	2893	TTAATAGT	GATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGT	GATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGAT	TGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGAT	TGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCT	CAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCT	CAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATT	CGAAAGACCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATT	CGAAAGACCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAAT	GGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAAT	GGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTA	AACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTA	AACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240

RESULT 8
US-08-780-872-34
; Sequence 34, Application US/08780872
; Patent No. 5846824
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/780,872
; FILING DATE: 09-JAN-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-780-872-34

Query Match	94.5%;	Score 3236.8;	DB 2;	Length 3240;
Best Local Similarity	99.9%;			
Matches 3238;	Conservative	0;	Mismatches	2; Indels 0; Gaps 0;
Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC	72	
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC	60	

Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132
Db	61	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAACATATAAAGCATGAACATTTTAAAGAAGCAAGAAAATACCCCTCTCCATCAA	192
Db	121	ACATTAGTAACATATAAAGCATGAACATTTTAAAGAAGCAAGAAAATACCCCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAAGTGTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAAGTGTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTTAAAA	312
Db	241	GAATTTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTTAAAA	300
Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT	372
Db	301	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCCTTTGT	1032
Db	961	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTCTGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAAATATTCGAGACATTGACAAGATTTATGTTCTGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCCCTGATCTTCCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCCCTGATCTTCCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260

Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	 CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
Db	1321	 ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	 GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	 AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	 TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	 AATGAATTAAGGGAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAACT	1692
Db	1621	 TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAACT	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	 ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	 GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1872
Db	1801	 CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAACTTTCTCAGTATTTAATTACAGCTAGTACAGGTCCTAAAA	1932
Db	1861	 AAATATTTAACAGATGACAACTTTCTCAGTATTTAATTACAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	 TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACCTTTTTCTTTTGGCATTTAAAATCTGAGATGCACAATAAAACAGTT	2052
Db	1981	 CAAAGGATTGGGCACCTTTTTCTTTTGGCATTTAAAATCTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041	 AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTTAAGTACATTCTCAA	2172
Db	2101	 CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTTAAGTACATTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161	 CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCA	2292
Db	2221	 CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	 CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAAGCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2412
Db	2341	 TTGAATTGGGAGAAGCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2472
Db	2401	 TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532

Db	2461	 GAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACTATTATGCAAATT	2592
Db	2521	 ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACTATTATGCAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	 CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	 CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	 TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACGTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	 ATCATGGTGAAAGACGATGGACAACGTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2892
Db	2821	 AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	 TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	 CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	 CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	 TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	 AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	 ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240

RESULT 9
US-09-085-957-34
; Sequence 34, Application US/09085957
; Patent No. 6274327
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/085,957
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-085-957-34

Query Match 94.5%; Score 3236.8; DB 3; Length 3240;
Best Local Similarity 99.9%;
Matches 3238; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	60
Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132
Db	61	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAACATATAAAGCATGAACATATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	192
Db	121	ACATTAGTAACATATAAAGCATGAACATATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTAAAA	312
Db	241	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTAAAA	300
Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	372
Db	301	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840

Qy	853	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	 AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	972
Db	901	 TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCTTTGT	1032
Db	961	 GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	 GCAACCTATGTGAATGTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	 TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCCCTGATCTTCCTCGTGCTGCT	1212
Db	1141	 CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCCCTGATCTTCCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	 CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	 CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
Db	1321	 ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCCTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	 GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCCTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	 AGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCAGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	 TCCCAGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	 AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAACT	1692
Db	1621	 TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAACT	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	 ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	 GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1872
Db	1801	 CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	 AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	 TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTTCTTTTGGCATTTAAAACTGAGATGCACAATAAAACAGTT	2052
Db	1981	 CAAAGGATTGGGCACTTTTTCTTTTGGCATTTAAAACTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112

Db	2041	 AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCTGTCATGTGGGATGTATTTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAAA	2172
Db	2101	 CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161	 CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCAA	2292
Db	2221	 CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCAA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCTGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	 CTAGGAAACCTCAGGCTTAAAGAGTGTCTGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2412
Db	2341	 TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTCGTATTATG	2472
Db	2401	 TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTCGTATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	 GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACTATTATGCAAATT	2592
Db	2521	 ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACTATTATGCAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCAC TGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	 CAGTGCAAAGGCGGCTTGAAAGGTGCAC TGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	 CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	 TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAAC TGTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	 ATCATGGTGAAAGACGATGGACAAC TGTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2892
Db	2821	 AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	 TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	 CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	 CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	 TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	 AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	 ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240

US-09-325-095-34
; Sequence 34, Application US/09325095
; Patent No. 7422849
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/325,095
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/085,957
; FILING DATE:
; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-325-095-34

Query Match		94.5%;	Score 3236.8;	DB 8;	Length 3240;		
Best Local Similarity		99.9%;					
Matches 3238;		Conservative	0;	Mismatches	2;	Indels	0; Gaps 0;
Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCCAAGAATC	72				

Db	361	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCTTTGT	1032
Db	961	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620

Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTA	1692
Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTA	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTTCTTTTGGCATTTAAAACTGAGATGCACAATAAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACTTTTTCTTTTGGCATTTAAAACTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAA	2172
Db	2101	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCA	2292
Db	2221	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2412
Db	2341	TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTCGTATTATG	2460
Qy	2473	GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATCTCACACTATTATGCAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATCTCACACTATTATGCAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCAGTTCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGCAAAGGCGGCTTGAAAGGTGCAGTTCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCAACAATAGTAAC	2772
Db	2701	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCAACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACGTTCATATAGATTTTGGACACTTTTTGGATCAC	2832
Db	2761	ATCATGGTGAAAGACGATGGACAACGTTCATATAGATTTTGGACACTTTTTGGATCAC	2820

Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTTC	2892
Db	2821	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCCAAGAATGCACAAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCCAAGAATGCACAAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240

RESULT 11
US-11-443-428A-73309
; Sequence 73309, Application US/11443428A
; Patent No. 7745391
; GENERAL INFORMATION:
; APPLICANT: Mintz, Liat
; APPLICANT: Xie, Hanqing
; APPLICANT: Dahari, Dvir
; APPLICANT: Levanon, Erez
; APPLICANT: Freilich, Shiri
; APPLICANT: Beck, Nili
; APPLICANT: Zhu, Wei-Yong
; APPLICANT: Wasserman, Alon
; APPLICANT: Hermesh, Chen
; APPLICANT: Azar, Idit
; APPLICANT: Bernstein, Jeanne
; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
; FILE REFERENCE: 02/23929
; CURRENT APPLICATION NUMBER: US/11/443,428A
; CURRENT FILING DATE: 2006-05-31
; NUMBER OF SEQ ID NOS: 1034312
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 73309
; LENGTH: 4300
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(15)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (23)..(23)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (27)..(27)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (30)..(30)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (59)..(59)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (64)..(64)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature

; LOCATION: (86)..(86)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (90)..(90)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (354)..(354)
; OTHER INFORMATION: n is a, c, g, or t
US-11-443-428A-73309

Query Match 94.2%; Score 3225.4; DB 11; Length 4300;
Best Local Similarity 97.3%;
Matches 3333; Conservative 0; Mismatches 37; Indels 56; Gaps 3;

Qy	1	AGGATCAGAACAAATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGTATG	60
Db	172	AGAATCAGAACAAATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGTATG	231
Qy	61	CCCCCAAGAATCCTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTTAGAATGC	120
Db	232	CCCCCAAGAATCCTAGTAGAATGTTTACTACCAAATGGAATGATAGTGACTTTTAGAATGC	291
Qy	121	CTCCGTGAGGCTACATTAGTAACATAAAGCATGAACTATTTAAAGAAGCAAGAAAATAC	180
Db	292	CTCCGTGAGGCTACATTAATAACCATAAAGCATGAACTATTTAAAGAAGCAAGAAAATAC	351
Qy	181	CCTCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA	240
Db	352	CCNCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAA	411
Qy	241	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTTCAA	300
Db	412	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTTCAA	471
Qy	301	CCATTTTTTAAAAGTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	360
Db	472	CCCTTTTTTAAAAGTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	531
Qy	361	ATTGGTTTTTGCTATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTA	420
Db	532	ATTGGTTTTTGCTATCGGCATGCCAGTGTGTGAATTTGATATGGTTAAAGATCCAGAAGTA	591
Qy	421	CAGGACTTCCGAAGAAATATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTT	480
Db	592	CAGGACTTCCGAAGAAATATTCTGAACGTTTGTAAGAAGCTGTGGATCTTAGGGACCTC	651
Qy	481	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAG	540
Db	652	AATTCACCTCATAGTAGAGCAATGTATGTCTATCCTCCAAATGTAGAATCTTCACCAGAA	711
Qy	541	CTGCCAAAGCACATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTA	600
Db	712	TTGCCAAAGCACATATATAATAAATTAGATAAAGGGCAAATAATAGTGGTGATCTGGGTA	771
Qy	601	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	660
Db	772	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	831
Qy	661	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCT	720
Db	832	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCCTCT	891
Qy	721	GAACAATTAATACTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGA	780
Db	892	GAACAATAATACTCTGTGTTTTAGAAATATCAGGGCAAGTATATTTTAAAAGTGTGTGGA	951
Qy	781	TGTGATGAATACTTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGT	840
Db	952	TGTGATGAATACTTCTAGA-----	971
Qy	841	ATAATGCTTGGGAGGATGCCCAATTTGAAGATGATGGCTAAAAGAAAGCCTTTATTCTCAA	900
Db	972	-----GATGCCCAATTTGATGTTGATGGCTAAAGAAAGCCTTTATTCTCAA	1017
Qy	901	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCA	960
Db	1018	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCA	1077
Qy	961	TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATA	1020

Db	1078	 TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTATAAAATAGTGCACCTCAGAATA	1137
Qy	1021	AAAATTCTTTGTGCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTT	1080
Db	1138	 AAAATTCTTTGTGCAACCTACGTGAATGTAAATATTCGAGACATTGATAAGATCTATGTT	1197
Qy	1081	CGAACAGGTATCTACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTA	1140
Db	1198	 CGAACAGGTATCTACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTA	1257
Qy	1141	CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTT	1200
Db	1258	 CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTT	1317
Qy	1201	CCTCGTGCTGCTCGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1260
Db	1318	 CCTCGTGCTGCTCGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1377
Qy	1261	GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1320
Db	1378	 GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1437
Qy	1321	GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1380
Db	1438	 GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1497
Qy	1381	AACCCCTATTGGTGTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAG	1440
Db	1498	 AACCCCTATTGGTGTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAG	1557
Qy	1441	TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCC	1500
Db	1558	 TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCC	1617
Qy	1501	AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGA	1560
Db	1618	 AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCCCACGCAGGACTGAGTAACAGA	1677
Qy	1561	CTAGCTAGAGACAATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1620
Db	1678	 CTAGCTAGAGACAATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1737
Qy	1621	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACAC	1680
Db	1738	 CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACAC	1797
Qy	1681	TATTGTGTAACATATCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCT	1740
Db	1798	 TATTGTGTAACATATCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCT	1857
Qy	1741	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAA	1800
Db	1858	 AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAA	1917
Qy	1801	CAGGCTATGGAACCTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTT	1860
Db	1918	 CAGGCTATGGAACCTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTT	1977
Qy	1861	CGGTGCTTGGA AAAATATTTAACAGATGACAAACTTCTCAGTATTTAATTCAGCTAGTA	1920
Db	1978	 CGGTGCTTGGA AAAATATTTAACAGATGACAAACTTCTCAGTATTTAATTCAGCTAGTA	2037
Qy	1921	CAGGTCTTAAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAA	1980
Db	2038	 CAGGTCTTAAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAA	2097
Qy	1981	GCATTGACTAATCAAAGGATTGGGCACTTTTTCTTTTGGCATTATAAAATCTGAGATGCAC	2040
Db	2098	 GCATTGACTAATCAAAGGATTGGGCACTTTTTCTTTTGGCATTATAAAATCTGAGATGCAC	2157
Qy	2041	AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGG	2100
Db	2158	 AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGG	2217
Qy	2101	ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACT	2160
Db	2218	 ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACT	2277
Qy	2161	GACATTCTCAAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTT	2220

Db	2278	GACATTCTCAAACAGGAGAAGAAGGATGAAACACAAAAAGGTACAGATGAAGTTTTTTAGTT	2337
Qy	2221	GAGCAAAATGAGGCGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAAC	2280
Db	2338	GAGCAAAATGAGGCGACCAGATTTTCATGGATGCTCTACAGGGCTTTCTGTCTCCTCTAAAC	2397
Qy	2281	CCTGCTCATCAACTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAA	2340
Db	2398	CCTGCTCATCAACTAGGAAACCTCAGGCTTGAAGAGTGTCGAATTATGTCTCTGCAAAA	2457
Qy	2341	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTTCAGAAC	2400
Db	2458	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTTCAGAAC	2517
Qy	2401	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATT	2460
Db	2518	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATT	2577
Qy	2461	ATTCGTATTATGGAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTAT	2520
Db	2578	ATTCGTATTATGGAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTAT	2637
Qy	2521	GGTTGTCTGTCAATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACT	2580
Db	2638	GGTTGTCTGTCAATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACT	2697
Qy	2581	ATTATGCAAATTCAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2640
Db	2698	ATTATGCAAATTCAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2757
Qy	2641	CTACATCAGTGGCTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTG	2700
Db	2758	CTACATCAGTGGCTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTG	2817
Qy	2701	TTTACACGTTTCATGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2760
Db	2818	TTTACACGTTTCATGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2877
Qy	2761	CACAATAGTAACATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2820
Db	2878	CACAATAGTAACATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2937
Qy	2821	TTTTTGGATCACAAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTTGTTTTG	2880
Db	2938	TTTTTGGATCACAAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATTTGTTTTG	2997
Qy	2881	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAA	2940
Db	2998	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAA	3057
Qy	2941	TTTGAGAGGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAAT	3000
Db	3058	TTTGAGAGGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAAT	3117
Qy	3001	CTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3060
Db	3118	CTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3177
Qy	3061	GATGACATTGCATACATTTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTG	3120
Db	3178	GATGACATTGCATACATTTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTG	3237
Qy	3121	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3180
Db	3238	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3297
Qy	3181	TGGATCTTCCACACAATTAAACAGCATGCATTGAACTG-AAAAGATAACTGAGAAAAATGAA	3239
Db	3298	TGGATCTTCCACACAATTAAACAGCATGCATTGAACTGAAAAAGATAACTGAGAAAAATGAA	3357
Qy	3240	AGCTCACTCTGGATTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGC	3299
Db	3358	AGCTCACTCTGGATTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAAGACCGATTGC	3417
Qy	3300	ATAGGAATTGCACAATCCATGAACAGCATTAG-ATTTACAGCAAGAACAGAAATAAAATA	3358
Db	3418	ATAGGAATTGCACAATCCATGAACAGCATTAGAATTACAGCAAGAACAGAAATAAAATA	3477
Qy	3359	CTATATAATTTAAATAATGTAAACGCAAACAGGGTTTGATAGCACTTAACTAGTTCATT	3418
Db	3478	CTATATAATTTAAATAATGTAAACGCAAACAGGGTTTGATAGCACTTAACTAGTTCATT	3537

Qy 3419 TCAAAA 3424
| | | | |
Db 3538 TCAAAA 3543

RESULT 12
US-08-162-081B-35
; Sequence 35, Application US/08162081B
; Patent No. 5824492
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/162,081B
; FILING DATE: February 7, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3207 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-162-081B-35

Query Match 87.9%; Score 3008.6; DB 2; Length 3207;
Best Local Similarity 96.1%;
Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	60
Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132
Db	61	CTAGTAGAATGTTTACTACCAAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAACATATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	192
Db	121	ACGTTAATAACGATAAAGCATGAACTATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTTAAAA	312
Db	241	GAATTTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCAACCCTTTTTTAAAA	300
Qy	313	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT	372
Db	301	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432

Db	361	 ATCGGCATGCCAGTGTGTGAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	 AGAAATATTCTCAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	 AGTAGAGCAATGTATGTTTATCCTCCAAATGTAGAATCTTCACCAGAACTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAAATAGTGGTGATTGGGTAATAGTTTCTCCA	612
Db	541	 ATATATAATAAATTGGATAAAGGGCAAATAAATAGTGGTGATTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	 AATAATGACAAACAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	 ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAACTAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	 CTCTGTGTTTTAGAAATATCAGGGCAAGTATATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	 TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	 AGGATGCCCAATTTGATGCTGATGGCTAAAGAAAGCCTCTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	 TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCCTTGT	1032
Db	961	 GAAACATCTACAAAATCCCTTTGGGTTATAAATAGTGCCTCAGAATAAAAAATTCCTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	 GCAACCTATGTGAATGTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	 TACCATGGAGGAGAACCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCCTCGTGCTGCT	1212
Db	1141	 CCCAGGTGGAATGAATGGCTGAATTACGATATATACATTCTCTGATCTTCCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	 CGACTTTGCCTTTCCATTTGTTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	 CCATTGGCCTGGGGAAATATAAACTTGTTTGATTACACAGATACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
Db	1321	 ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTTGCTGAACCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	 GTTACTGGATCAAATCCAAATAAAGAACTCCATGTTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	 AGCAGTGTGGTAAAGTTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	 TCCCGTGAAGCAGGATTTAGTTATTCCCATGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTCTACACGAGATCCTCTC	1632

Db	1561	AATGAATTAAGAGAAAATGATAAAGAACAGCTCCGAGCAATTTGTACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTA	1692
Db	1621	TCTGAAATCACTGAGCAAGAGAAAGATTTTCTGTGGAGCCACAGACACTATTGTGTA	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTAAATGGAATTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCTCAGATGTACTGCTTGGTAAAAGATTGGCCTCCAATCAAGCCTGAACAGGCTATGGAG	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGTCTGTTTCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGCAATTACCCAGATCCTATGGTTCGAGGTTTTGTCTGTTTCGGTGCTTAGAA	1860
Qy	1873	AAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAACTTTCTCAGTACCTAATTCAGCTAGTACAGGTACTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAGTATTTGGATAACCTGCTTGTGAGATTTTACTCAAAAAAGCGTTAACTAAT	1980
Qy	1993	CAAAGGATTGGGCACCTTTTTCTTTTGGCATTTAAAAATCTGAGATGCACAATAAACAGTT	2052
Db	1981	CAAAGGATCGGTCACTTTTTCTTTTGGCATTTAAAAATCTGAGATGCACAATAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041	AGTCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGCCGTGCATGTGGGATGTATCTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTTAAGTACATTCTCAA	2172
Db	2101	CACCTTAATAGGCAAGTTGAGGCTATGGAAAAGCTCATTAACCTGACTGACATTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161	CAAGAGAAGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGCGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCA	2292
Db	2221	CGACCAGATTTTCATGGATGCTCTCCAGGGCTTTCTGTCTCCTCTAAACCCTGCTCATCAG	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTGGGAAATCTCAGGCTTGAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAAGGATGAAACACAAAGGATGTCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2412
Db	2341	TTGAATTGGGAGAAGGATGAAACACAAAGGATGTCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACCCCTCAGATTATTTCGCATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGATGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATCTCACACTATTATGCAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAGAAATCTCACACTATAATGCAGATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGTAAGGAGGCCTGAAAGGTGCACTGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAGGGGAAATATATGATGCGGCCATCGATTGTTTACACGATCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCAACAATAGTAAC	2772
Db	2701	TGTGCTGGATATTGTGTTGCCACCTTCATTTTGGGAATTGGAGATCGTCAACAATAGTAAT	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACGTTCATATAGATTTTGGACACTTTTTGGATCAC	2832
Db	2761	ATCATGGTTAAAGATGATGGACAACGTTCATATAGATTTTGGACACTTTTTGGATCAC	2820

Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTC	2892
Db	2821		2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881		2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941		3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001		3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061		3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121		3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGA	3219
Db	3181		3207

RESULT 13

US-08-780-872-35
; Sequence 35, Application US/08780872
; Patent No. 5846824
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/780,872
; FILING DATE: 09-JAN-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3207 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-08-780-872-35

Query Match 87.9%; Score 3008.6; DB 2; Length 3207;
Best Local Similarity 96.1%;
Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	60
Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132
Db	61	CTAGTAGAATGTTTACTACCAAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAACATATAAAGCATGAACATATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	192
Db	121	ACGTTAATAACGATAAAGCATGAACATATTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTTAAAA	312
Db	241	GAATTTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCAACCCTTTTTTAAAA	300
Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	372
Db	301	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGTGAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTCAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTTTATCCTCCAAATGTAGAATCTTCACCAGAACTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAAAGGGCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	AATAATGACAAACAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAACATAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTTGTTGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTATATTTAAAAGTGTTGTTGATGTGATGAATAC	780
Qy	793	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCCAATTTGATGCTGATGGCTAAAGAAAGCCTCTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCCTTGT	1032
Db	961	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGTGCCTCAGAATAAAAAATTCCTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTTCGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAAATATTTCGAGACATTGACAAGATTTATGTTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCCCTGATCTTCCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTACGATATATACATTCCCTGATCTTCCTCGTGCTGCT	1200

Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201		1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261		1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
Db	1321		1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381		1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441		1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501		1560
Qy	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561		1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621		1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681		1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741		1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1872
Db	1801		1860
Qy	1873	AAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861		1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAAGCATTGACTAAT	1992
Db	1921		1980
Qy	1993	CAAAGGATTGGGCACTTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAACAGTT	2052
Db	1981		2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041		2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAAA	2172
Db	2101		2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161		2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCAA	2292
Db	2221		2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281		2340
Qy	2353	TTGAATTGGGAGAAGCCAGACATCATGTCAGAGTTACTGTTTCAGAAACATGAGATCATC	2412
Db	2341		2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2472

Db	2401	 TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACCCCTCAGATTATTCGCATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	 GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGATGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCTCACACTATTATGCAAATT	2592
Db	2521	 ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAGAAATTCTCACACTATAATGCAGATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACCTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	 CAGTGTAAGGAGGCCTGAAAGGTGCACCTGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	 CTCAAAGACAAGAACAAGGGGAAATATATGATGCGGCCATCGATTGTGTTACACGATCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	 TGTGCTGGATATTGTGTTGCCACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAT	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	 ATCATGGTTAAAGATGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTTT	2892
Db	2821	 AAGAAGAAAAAATTTGGTTATAAACGAGAGCGCGTGCCGTTTGTGTTTTGACACAAGATTTT	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	 TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	 CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGGCAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	 CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTGCAATCTTTTGATGATATTGCA	3060
Qy	3073	TACATTGCAAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	 TACATTGCAAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	 AAACAAATGAATGATGCACACCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGA	3219
Db	3181	 ACAATTAAGCAGCATGCTTTGAACTGA	3207

RESULT 14
US-09-085-957-35
; Sequence 35, Application US/09085957
; Patent No. 6274327
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/085,957
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3207 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-085-957-35

Query Match 87.9%; Score 3008.6; DB 3; Length 3207;
Best Local Similarity 96.1%;
Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAAC	TGTGGGCATCCACTTGATGCCCCCAAGAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAAC	TGTGGGCATCCACTTGATGCCCCCAAGAATC	60
Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT		132
Db	61	CTAGTAGAATGTTTACTACCAAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT		120
Qy	133	ACATTAGTAACTATAAAGCATGAAC	TATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	192
Db	121	ACGTTAATAACGATAAAGCATGAAC	TATTTAAAGAAGCAAGAAAATACCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA		252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA		240
Qy	253	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTTAAAA		312
Db	241	GAATTTTTTGTATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCAACCTTTTTTAAAA		300
Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT		372
Db	301	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT		360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA		432
Db	361	ATCGGCATGCCAGTGTGTGAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA		420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT		492
Db	421	AGAAATATTCTCAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT		480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC		552
Db	481	AGTAGAGCAATGTATGTTTATCCTCCAAATGTAGAATCTTCACCAGAACTGCCAAAGCAC		540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA		612
Db	541	ATATATAATAAATTGGATAAAGGGCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA		600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA		672
Db	601	AATAATGACAAACAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA		660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAATA		732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAACATAATA		720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC		792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTATATTTTAAAAGTGTGTGGATGTGATGAATAC		780

Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCCAATTTGATGCTGATGGCTAAAGAAAGCCTCTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCTTTGT	1032
Db	961	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGTGCCTCAGAATAAAAAATTCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTGATCTTCCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTACGATATATACATTCTGATCTTCCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGTTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCCTGGGGAAATATAAACTTGTTTGATTACACAGATACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTTGCTGAACCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAACTCCATGTTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTTCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGTGAAGCAGGATTTAGTTATTCCCATGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAGAGAAAATGATAAAGAACAGCTCCGAGCAATTTGTACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAACT	1692
Db	1621	TCTGAAATCACTGAGCAAGAGAAAGATTTTCTGTGGAGCCACAGACACTATTGTGTAACT	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATCTAGAGATGAAGTA	1740
Qy	1753	GCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCTCAGATGTACTGCTTGGTAAAAGATTGGCCTCCAATCAAGCCTGAACAGGCTATGGAG	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTGGAA	1872
Db	1801	CTTCTGGACTGCAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTTCGGTGCTTAGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTACCTAATTCAGCTAGTACAGGTACTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAGTATTTGGATAACCTGCTTGTGAGATTTTTACTCAAAAAAGCGTTAACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTTCTTTTGGCATTTAAATCTGAGATGCACAATAAACAGTT	2052

Db	1981		2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041		
Qy	2041	AGTCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGCCGTGCATGTGGGATGTATCTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAA	2172
Db	2101		
Qy	2101	CACCTTAATAGGCAAGTTGAGGCTATGGAAAAGCTCATTAACCTGACTGACATTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161		
Qy	2161	CAAGAGAAGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGCGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCA	2292
Db	2221		
Qy	2221	CGACCAGATTTTCATGGATGCTCTCCAGGGCTTTCTGTCTCCTCTAAACCCTGCTCATCA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281		
Qy	2281	CTGGGAAATCTCAGGCTTGAAGAGTGTCGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2412
Db	2341		
Qy	2341	TTGAATTGGGAGAACCCAGACATCATGTCAGAACTACTCTTCAGAACAAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTCGTATTATG	2472
Db	2401		
Qy	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACCTTCAGATTATTCGCATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461		
Qy	2461	GAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGATGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATCTCACACTATTATGCAAATT	2592
Db	2521		
Qy	2521	ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAGAAATCTCACACTATAATGCAGATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCAC TGAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581		
Qy	2581	CAGTGTAAGGAGGCCTGAAAGGTGCAC TGAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641		
Qy	2641	CTCAAAGACAAGAACAAGGGGAAATATATGATGCGGCCATCGATTGTTTACACGATCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701		
Qy	2701	TGTGCTGGATATTGTGTTGCCACCTTCATTTTGGAATTGGAGATCGTCACAATAGTAAT	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAAC TGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761		
Qy	2761	ATCATGGTTAAAGATGATGGACAAC TGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTGACACAGGATTT	2892
Db	2821		
Qy	2821	AAGAAGAAAAAATTTGGTTATAAACGAGAGCGGTGCCGTTGTTTTGACACAAGATTT	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881		
Qy	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941		
Qy	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTCGGCAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001		
Qy	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTGCAATCTTTTGATGATATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTCATG	3132
Db	3061		
Qy	3061	TACATTCGAAAGACCCTAGCTTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121		
Qy	3121	AAACAAATGAATGATGCACACCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGA	3219

Db 3181 ACAATTAAGCAGCATGCTTTGAACTGA 3207

RESULT 15
US-09-325-095-35
; Sequence 35, Application US/09325095
; Patent No. 7422849
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/325,095
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/085,957
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; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
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; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3207 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-325-095-35

Query Match 87.9%; Score 3008.6; DB 8; Length 3207;
Best Local Similarity 96.1%;
Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACTGTGGGGCATCCACTTGATGCCCCAAGAATC	60
Qy	73	CTAGTGGAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132
Db	61	CTAGTAGAATGTTTACTACCAAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAACATAAAGCATGAACATTTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	192
Db	121	ACGTTAATAACGATAAAGCATGAACATTTTAAAGAAGCAAGAAAATACCCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	312
Db	241	GAATTTTTTGTATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCAACCCTTTTTAAAA	300
Qy	313	GTAATTGAACCAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	372

Db	301	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGTGAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTCAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTTTATCCTCCAAATGTAGAATCTTCACCAGAACTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAAAGGGCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	672
Db	601	AATAATGACAAACAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAATA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAATTAATA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTATATTTTAAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCCAATTTGATGCTGATGGCTAAAGAAAGCCTCTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATTCTTTGT	1032
Db	961	GAAACATCTACAAAATCCCTTTGGGTTATAAATAGTGCCTCAGAATAAAAAATTCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAAATATTTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCCCTGATCTTCTCGTGCTGCT	1212
Db	1141	CCCAGGTGGAATGAATGGCTGAATTACGATATATACATTCCCTGATCTTCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCCTTTCCATTTGCTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCCTTTCCATTTGTTCTGTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCCTGGGGAAATATAAACTTGTTTGATTACACAGATACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTTGCTGAACCCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGGACTGGTTC	1452
Db	1381	GTTACTGGATCAAATCCAAATAAAGAACTCCATGTTTAGAGTTGGAGTTTGGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGTGAAGCAGGATTTAGTTATTCCCATGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560

Qy	1573	AATGAATTAAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	 AATGAATTAAAGAGAAAAATGATAAAGAACAGCTCCGAGCAATTTGTACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621	 TCTGAAATCACTGAGCAAGAGAAAGATTTTCTGTGGAGCCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTCTAGAGATGAAGTA	1752
Db	1681	 ATCCCCGAAATTCTACCCAAATTGCTTCTGTCTGTTAAATGGAACCTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	 GCTCAGATGTACTGCTTGGTAAAAGATTGGCCTCCAATCAAGCTGAACAGGCTATGGAG	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCCGGTGCTTGGA	1872
Db	1801	 CTTCTGGACTGCAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCCGGTGCTTAGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTACAGTAGTACAGGTCTAAAA	1932
Db	1861	 AAATATTTAACAGATGACAAACTTTCTCAGTACCTAATTACAGTAGTACAGGTACTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	 TATGAACAGTATTTGGATAACCTGCTTGTGAGATTTTTACTCAAAAAAGCGTTAACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTTCTTTTGGCATTATAAAATCTGAGATGCACAATAAAACAGTT	2052
Db	1981	 CAAAGGATCGGTCACTTTTTCTTTTGGCATTATAAAATCTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTTGAAG	2112
Db	2041	 AGTCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGCCGTGCATGTGGGATGTATCTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAAC TGACATTCTCAA	2172
Db	2101	 CACCTTAATAGGCAAGTTGAGGCTATGGAAAAGCTCATTAACTTGACTGACATTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGAGG	2232
Db	2161	 CAAGAGAAGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTTGAGCAAATGCGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCTGCTCATCAA	2292
Db	2221	 CGACCAGATTTTCATGGATGCTCTCCAGGGCTTTCTGTCTCCTCTAAACCCTGCTCATCAG	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTCTGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	 CTGGGAAATCTCAGGCTTGAAGAGTGTCTGAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTCTCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2412
Db	2341	 TTGAATTGGGAGAACCCAGACATCATGTCTCAGAAATTACTCTTTCAGAACAAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTAATTCGTATTATG	2472
Db	2401	 TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACCCCTCAGATTATTCGCATTATG	2460
Qy	2473	GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	 GAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGATGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATTCACACTATTATGCAAATT	2592
Db	2521	 ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAGAAATTCACACTATAATGCAGATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	 CAGTGTAAGGAGGCCTGAAAGGTGCACTGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	 CTCAAAGACAAGAACAAAGGGGAAATATATGATGCGGCCATCGATTTGTTTACACGATCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	 TGTGCTGGATATTGTGTTGCCACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAT	2760

Qy	2773	ATCATGGTGAAAGACGATGGACAAC	TGTTTCATATAGATTTTGGACACTTTT	TGGATCAC	2832
Db	2761	ATCATGGTTAAAGATGATGGACAAC	TGTTTCATATAGATTTTGGACACTTTT	TGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAAC	GAGAACGTGTGCCATTTGTTTTGACAC	AGGATTTTC	2892
Db	2821	AAGAAGAAAAAATTTGGTTATAAAC	GAGAGCGCGTGCCGTTTGT	TTTGACACAAGATTTTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCC	AAGAATGCACAAAGACAAGAGAATTT	GAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCC	AAGAATGCACAAAGACAAGAGAATTT	GAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCT	AGCTATTTCGACAGCATGCCAATCTCT	TCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCT	AGCTATTTCGGCAGCATGCCAATCTCT	TCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTG	GGAATGCCAGAACTACAATCTTTTGAT	GACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTG	GGAATGCCAGAACTGCAATCTTTTGAT	GATATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAG	ATAAACTGAGCAAGAGGCTTTGGAGT	ATTTTCATG	3132
Db	3061	TACATTCGAAAGACCCTAGCCTTAG	ATAAACTGAGCAAGAGGCTTTGGAGT	ATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATG	GTGGCTGGACAACAAAAATGGATTGG	ATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACACCATG	GTGGCTGGACAACAAAAATGGATTGG	ATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGA			3219
Db	3181	ACAATTAAGCAGCATGCTTTGAACTGA			3207

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